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SPECIFICATION COVER SHEET

Client: Gowanus Canal Remedial
Design Group

Project: Gowanus Canal – 4th St
Turning Basin Pilot Study –
Dredging and Capping

Project #: HPH106A

SPECIFICATION SECTION: 01 35 29 **TITLE:** HEALTH, SAFETY, AND EMERGENCY
RESPONSE REQUIREMENTS

SPECIFICATION PREPARED BY:
(Specification Preparer, SP)

Signature



5/19/17

Name

Mark Malchik

Date

**SCOPE AND FORMAT CHECKED
BY:**
(Scope and Format Checker, SFC)

Signature



5/19/17

Name

Russ Hyatt

Date

**DETAILED REQUIREMENTS
CHECKED BY:**
(Detailed Requirements Checker, DRC)

Signature



5/19/17

Name

Darrell Nicholas

Date

APPROVED BY:
(Specification Approver, SA)

Signature



17 May 2017

Name

J.F. Beech

Date

Record of Revision (Number and initial all revisions)

Rev. No.	Reason	Date	By	Checked	Approval
0	TB4 Pilot Study Design - Issued for Bid	05/19/17	MM	DN	JFB

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SECTION 01 35 29

HEALTH, SAFETY, AND EMERGENCY RESPONSE REQUIREMENTS

PART 1 GENERAL

1.01 SUMMARY

- A. The project Site is a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)/Superfund site. This Section specifies the minimum health and safety submission and work requirements for the Site. The Contractor shall develop and implement an overall Site-specific Health and Safety Plan (HASP). The HASP shall address all activities performed within the Contract.
- B. The Contractor shall assume responsibility for the means and methods of job-site safety including general safety oversight authority for the health, safety, and protection of Contractor and Subcontractor on-site personnel, visitors and the general public during the performance of the Work. The Contractor is responsible for providing facilities, labor, materials, tools, equipment, appliances, transportation, and supervision necessary to complete the work specified in this Section and in the Contract Documents in a safe, diligent and compliant manner.
- C. Community air monitoring will be performed by others. The Contractor shall abide by the community air monitoring plan (CAMP).

1.02 RELATED SECTIONS, PLANS, AND DOCUMENTS

- A. All Sections of these specifications and the Contract Documents.

1.03 REFERENCES

- A. The site-specific HASP and all Work conducted on-site shall be in accordance with, but not limited to, the requirements of the following references, as applicable to the Work:
 - 1. Geosyntec 2016. Health and Safety Plan, Gowanus Canal Construction Activities;
 - 2. TRC 2017. Gowanus Community Air Monitoring Plan (Draft in Progress).;
 - 3. Occupational Safety and Health Administration. General Duty Clause of the U.S. Occupational Safety and Health Act, 29 U.S.C., Section 654, Subsections 5 (a) 1, 5(a)2 and 5(b);
 - 4. Occupational Safety and Health Administration. Standards and Regulations contained in Title 29, Code of Federal Regulations, including, but not limited to:

- Part 1910 “General Industry Regulations;”
 - Part 1926 “Construction Regulations;”
 - 1910.120 “Hazardous Waste Operations and Emergency Response;”
 - 1910.1200 “Hazard Communication;” and
 - 1926.16 “Rules of Construction.”
5. National Institute of Occupational Safety and Health (NIOSH)/OSHA/United States Coast Guard (USCG)/EPA Occupational Safety and Health Guidance Manual for Hazardous Site Activities, October 1985, Department of Health and Human Services (DHHS) NIOSH Publication Number 85-115.

1.04 SUBMITTALS

- A. The Contractor shall submit the following to the Owner's Representative in accordance with Section 01 33 00:
1. The Contractor shall submit a Site-specific Health and Safety Plan as required in this Section.
 2. When addenda are added to the existing HASP or when a new HASP is developed by the Contractor, an electronic copy of the documents shall be submitted to the Owner's Representative for review and comment.
 3. Once review is completed, an electronic copy of the finalized documents shall be provided to the Owner's Representative.

PART 2 PRODUCTS

2.01 HEALTH AND SAFETY PLAN

- A. General:
1. The Contractor shall be responsible for the development and implementation of a site-specific HASP specifying the Contractor's policies and procedures to adequately protect Site workers, visitors and residents. The HASP shall comply with applicable sections of Occupational Safety and Health Administration (OSHA) 29 Code of Federal Regulations (CFR) 1926 and 1910, and other applicable laws, regulations and codes. The HASP must establish in detail the protocols necessary for protecting workers, on-site personnel, visitors and the general public from potential physical and chemical hazards encountered during all Site activities.

2. The Contractor shall examine all other Sections of the Specifications for requirements which affect work of this Section, whether or not such work is specifically mentioned in this Section.
3. The Contractor shall coordinate work, including safety aspects of that work, with all other trades or contracts affecting or affected by work of this Section and cooperate with such trades to assure the steady progress and safe execution of all work under the Contract.
4. Subcontractors shall provide their own amendments to the Contractor's HASP specifying the personnel and procedures applicable to their contracted scope of work. Subcontractors' amendments to the Contractor's HASP shall contain a statement indicating their intention to comply with Contractor's HASP and information regarding their specific tasks, including the identified tasks, potential hazards, and control procedures.
5. Minimum precautions noted in this Section (01 35 29) shall in no way relieve individual employers from their responsibility to implement stricter health and safety precautions as warranted by the Work.

B. Topics:

1. HASPs shall include, but not necessarily be limited to, the following sections: Signature Sheet (to include Title, Signature, and phone number of Plan Preparer & Contractor contact information), Project Overview, Project Personnel and Responsibilities, Site Description, Description of Work, Hazards and Controls, Site Control, Air Monitoring, Personal Protective Equipment, H&S Inspections, Incident Reporting and Investigation, Emergency Response, Health and Safety Training Information, Medical Surveillance, Subcontractors and Suppliers, and HASP amendment procedures. Specific Contractor policies or programs relating to any of the hazards associated with the proposed work shall be included as appendices to the HASP(s).

C. Review:

1. Review comments on the Contractor's HASP by project team members will be transmitted to the Contractor by the Owner's Representative. It will be the responsibility of the Contractor to incorporate appropriate provisions into its HASP, subject to the agreement between the Contractor and the Owner. The Contractor will not be permitted to initiate Work until the HASP has been finalized and accepted by the Owner. Acceptance of the HASP indicates only that the HASP complies with the requirements of this Section. Suitability of the HASP for the Work, and the means and methods therein, is the responsibility of the Contractor.

D. Modifications:

1. It shall be the Contractor's responsibility to notify the Owner's Representative verbally and in writing as quickly as possible should any unforeseen safety hazard or condition become evident during the performance of the Work. In the interim, the Contractor shall take prudent action to establish and maintain safe working conditions and to safeguard workers, on-site personnel, visitors, potential off-site receptors, and the environment in accordance with the established emergency response procedures detailed in the Contractor's HASP.

2.02 STAFF ORGANIZATION, QUALIFICATIONS, AND RESPONSIBILITIES:

- A. The Contractor shall utilize the services of a qualified "Project Safety Professional" to provide guidance and assistance in the development, implementation, administration and supervision of an overall site-specific HASP and associated project safety program in accordance with these specifications. The Project Safety Professional shall have adequate on-water experience and shall be a Certified Industrial Hygienist certified by the American Board of Industrial Hygiene, a Certified Safety Professional certified by the Board of Certified Safety Professionals, or an alternate qualified individual with equivalent knowledge, skills and experience.
- B. The Contractor's Project Safety Professional shall review the available chemical data, the specified scope of work and Site conditions and develop the HASP. It shall be the responsibility of the Project Safety Professional to make interpretations and draw conclusions with respect to the conditions at the Site, the scope of work, and their impact on health and safety of project personnel.
- C. The Contractor shall designate an on-site individual as the Site Safety and Health Officer (SSHO) who shall assist and represent the Project Safety Professional in the continuous daily implementation and enforcement of the HASP. The SSHO shall be assigned to the Site on a full-time basis when construction is occurring and shall report administratively to the Contractor's Site Manager and to the Project Safety Professional in matters pertaining to public health and on-site safety and health. The SSHO shall be responsible for preparing and maintaining daily health and safety Site logs and reports. The SSHO shall not function in any other role besides that of the SSHO. The SSHO shall be sufficiently qualified through training and experience implementing HASPs for similar on-water work and COCs to function effectively in their role as SSHO for this project.
- D. The SSHO shall maintain a continuous health and safety monitoring/oversight program throughout the performance of the Work, including coordination/communication with the Owner's Representative, who will occasionally observe/monitor safety performance of the Contractor and its subcontractors. It shall be the Contractor's responsibility to notify the Owner's Representative of any deviations from the health and safety monitoring program.
- E. The Contractor shall provide additional appropriately qualified personnel to support the SSHO, if needed.

2.03 PERSONAL PROTECTIVE EQUIPMENT

- A. Minimum personal protective equipment (PPE) to be worn during work in all worksite areas of the Site include hard hats, work boots, safety glasses and standard work clothes. Additional PPE shall be used as appropriate and as required for the work to be performed.
- B. USCG-approved Type III or Type V personal flotation devices (PFDs) shall be provided and properly worn in closed fashion (zipped, tied, latched, etc.) by all persons in the following circumstances:
 - 1. On floating pipelines, pontoons, rafts, or stages;
 - 2. On structures or equipment extending over or next to water except where guardrails, personal fall protection system, or safety nets are provided for employees;
 - 3. Working alone at night where there are drowning hazards, regardless of other safeguards provided;
 - 4. In skiffs, small boats, or launches, unless in an enclosed cabin or cockpit;
 - 5. On open decks of marine vessels except where guardrails, personal fall protection system, or safety nets are provided for employees; or
 - 6. Whenever there is a drowning hazard.
- C. Contractor shall oversee all use of personal protective equipment (PPE) necessary to be in compliance with the HASP for all Site personnel. Contractor shall make PPE available for use by Site visitors.

2.04 TRAINING, MEDICAL MONITORING, INFORMATION, COMMUNICATION

- A. Prior to the initiation of Work, the Contractor shall verify that personnel assigned to perform or supervise work within an exclusion zone (EZ) and/or contaminant reduction zone (CRZ) and/or will contact contaminated environmental media at the Site (primarily NAPL-impacted soils, sediments and water) have received appropriate training in compliance with 29 CFR 1910.120, (“HAZWOPER”), including initial 40 hour Training and annual 8 hour refreshers, as well as 8 hour Supervisor Training for designated individuals functioning in an on-site HAZWOPER supervisory capacity.
- B. Active participation in a program of periodic medical monitoring in accordance with 29 CFR 1910.120 (f), at a frequency recommended by a physician, but no less frequent than biennial, is required for personnel working in exclusion zones and contamination reduction zones, and/or will contact contaminated environmental media at the site.

- C. It will be the individual employer's responsibility to provide requisite training and medical surveillance to its employees and to ensure subcontractors' employees are qualified as such. The Contractor shall be responsible for ensuring that only personnel having successfully completed the required training and medical surveillance, commensurate with their work, are permitted to perform work at the Site, and records of such training and medical surveillance shall be maintained by the Contractor at the site.
- D. At least one individual, designated by the Contractor and its subcontractors, who has current certification (Red Cross or equivalent) in basic first aid and cardiopulmonary resuscitation (CPR) must be present at each active work location on the Site at all times during work activities. First-aid-trained personnel must also have received training and information regarding OSHA's Bloodborne Pathogen Standard including the required use of "universal precautions."
- E. The Contractor shall have available at least one AED on-site. A minimum of 1 personnel trained in operation of the AED shall be present at each active work location at all times during work activities.
- E. The Contractor shall coordinate with local emergency responders prior to mobilization to develop procedures for emergency rescue from the Canal.
- F. The Contractor and subcontractors shall comply with additional training requirements as may be applicable to the Work, including, but not limited to: Hazard Communication, Respiratory Protection, Emergency Response Procedures, Construction Safety, and all other training as applicable to the work and required by other applicable regulations within 29 CFR 1926 and 1910.
- G. Prior to initiation of Work, the Project Safety Professional and SSHO shall attend a Process Safety Review meeting with the Owner's Representative to evaluate risks of hazards associated with the Work and mitigation measures.
- H. The Contractor shall implement a program of on-site safety communication, information and oversight, consisting of such measures as Site safety orientations, daily toolbox meetings, and regular/periodic safety meetings. Workers shall be encouraged during the site safety orientation and periodically thereafter to report unsafe work practices or workplace conditions to their supervisor and/or project safety representatives (SSHO), and to discontinue or delay their work ("stop work") should it represent an imminent hazard or otherwise unacceptable safety risk.
- I. The Contractor shall be responsible for ensuring that all required postings are in place, including, but not limited to OSHA poster, applicable labor and wage posting, and emergency response contact information.
- J. The Contractor shall implement an accident/incident/near miss reporting program applicable to its own employees as well as its subcontractor employees, and shall provide information on reported incidents (Incident Reports) to the Owner's Representative

within 8 hours of incident occurrence. Verbal communication of the incident to the Owner's Representative should occur as soon as possible following the incident occurrence.

- K. Upon observing or becoming aware of any unsafe condition which poses an imminent danger to onsite workers, visitors, or the general public, the Contractor shall "stop work" and notify the individual(s) affected, their supervisor, and the Owner's Representative of the condition and of corrective actions to be taken.

2.05 HAZARD COMMUNICATION

- A. The Contractor and each subcontractor must have a written Hazard Communication Program. This Program must be available on Site for review by the Owner's Representative.
- B. The Contractor shall ensure that Safety Data Sheets (SDSs) for chemical products brought on-site by the Contractor and all subcontractors are maintained at the Site and made available to the Owner's Representative and other affected personnel upon request.

2.06 LOGS, REPORTS, AND RECORDKEEPING

- A. The Contractor shall maintain logs and reports covering the implementation of the HASP and other requirements of this section. The formats shall be developed by the Contractor and submitted as part of the HASP.

PART 3 EXECUTION

3.01 IMPLEMENTATION OF THE HASP

- A. It shall be the sole responsibility of the Contractor to ensure that all health and safety requirements are implemented in accordance with the Contractor's HASP and applicable regulations.
- B. The Owner's Representative reserves the right to observe and monitor, from time to time, the health and safety performance of the Contractor and its subcontractors pertaining to their adherence to this Section, and to advise the Owner accordingly.

[END OF SECTION]